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(54) Title: MITOTIC KINESIN INHIBITORS

(57) Abstract: The present invention relates to tetrahydropyridine compounds that are useful for treating cellular proliferative diseases, for treating disorders associated with KSP kinesin activity, and for inhibiting KSP kinesin. The invention also related to compositions which comprise these compounds, and methods of using them to treat cancer in mammals

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/40256

A. CLASSIFICATION OF SUBJECT MATTER		
IPC(7) : C07D 211/70		
US CL : 546/314		
According to International Patent Classification (IPC) or to both national classification and IPC		
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B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols)		
U.S. : 546/314		
U.S. I STOISET		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
DUCHINCINGUION SOMESTICAL MINISTRALIA TOPALIA MINISTRALIA MINISTRA		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)		
Electronic data base consulted during the international search (halife of data base and, where practicable, search terms date)		
CAS Online		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
	re appropriate, of the relevant passages Relevant to claim No.	
Category * Citation of document, with indication, whe	to appropriately as many transfer of the contract of the contr	
A US 5,559,238 A (GUZZI et al) 24 September 19	990 (24.09.1990), see entire document.	
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Further documents are listed in the continuation of Box (C. See patent family annex.	
Special categories of cited documents:	tates document published after the international filing date or priority	
	date and not in conflict with the application but cited to understand the	
"A" document defining the general state of the art which is not considered to		
of particular relevance	"X" document of particular relevance; the claimed invention cannot be	
"E" earlier application or patent published on or after the international filing	date considered novel or cannot be considered to involve an inventive step	
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establish the publication date of another citation of outer special reason (specified)	considered to involve an inventive step when the document is	
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"O" document referring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in the art	
"P" document published prior to the international filing date but later than the	e "&" document member of the same patent family	
priority date claimed		
	Date of mailing of the international search report	
Date of the actual completion of the international search	OK VIIC JULY	
14 April 2004 (14 04 2004)	25 AUG 2004	
14 April 2004 (14.04.2004)	Authorized officer	
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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/40256

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)		
This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:		
1. Claim Nos.: because they relate to subject matter not required to be searched by this Authority, namely:		
Claim Nos.: 1-7 and 9-21 because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically: Please See Continuation Sheet		
Claim Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).		
Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)		
This International Searching Authority found multiple inventions in this international application, as follows:		
1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. 2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. 3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:		
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.		

INTERNATIONAL SEARCH REPORT		
Continuation of Box I Reason 2: In these claims, the numerous variables and their voluminous, complex meanings and their seemingly endless permutations and combinations, make it virtually impossible to determine the full scope and complete meaning of the claimed subject matter. As		
presented, the claimed subject matter cannot be regarded as being a clear and concise description for which protection is sought and as such the listed claims do not comply with the requirements of PCT Article 6. Thus it is impossible to carry out a meaningful search on same. A search will be made on the first discernable invention of claim 8, the first compound therein.		
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Form PCT/ISA/210 (second sheet) (July 1998)

PCT/US03/40256